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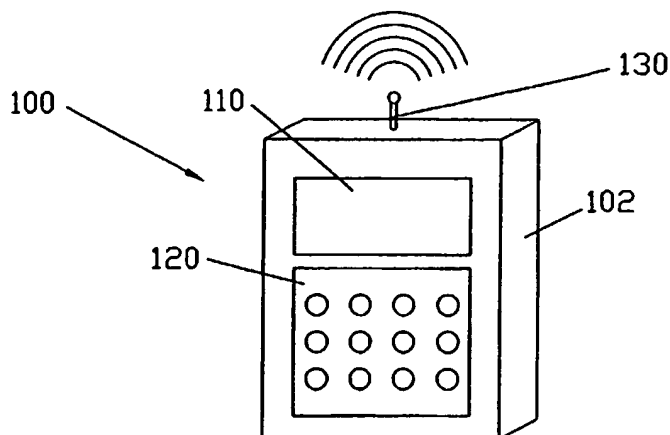
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ning of each regular issue of the PCT Gazette.*

(54) Title: MEDICAL APPARATUS REMOTE CONTROL AND METHOD



(57) Abstract: A system for providing medical treatment to a patient, including a medical treatment apparatus and a remote control device. The medical treatment apparatus has a local processor, and a local communication element connected to the local processor, while the remote control device includes a remote processor, user interface components connected to the remote processor, and a remote communication element connected to the remote processor and adapted to communicate with the local communication element of the medical treatment apparatus in a wireless manner such that information can be transferred between the local processor and the remote processor. The remote control device also includes at least two separate power supplies connected to the remote processor.



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	WO 00 10628 A (MINIMED INC) 2 March 2000 (2000-03-02) page 8, line 13 -page 14, line 29 page 41, line 27 -page 42, line 31; tables 1-4,17 --- -/--	1,3-15, 36-47, 68-73 16-34, 48-62, 74-93



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Patent family members are listed in annex.

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Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 00 19887 A (MINIMED INC) 13 April 2000 (2000-04-13)	1,3,4,6, 10-15, 24,26, 28,29, 36-38, 42-47, 56,58, 60-62, 67-73, 76,77,82
A	page 5, line 18 -page 26, line 20; tables 1-14	2,5, 16-22, 25,34, 35, 48-54, 66,74, 79,80, 92,93
A	WO 00 29047 A (KIM YOON OK ;CHO OK KYUNG (DE); PHISCIENCE GMBH ENTWICKLUNG VO (DE) 25 May 2000 (2000-05-25) page 4, line 15 -page 11, line 21	1-93
A	US 5 507 288 A (BLASBERG PETER ET AL) 16 April 1996 (1996-04-16) column 5, line 16 -column 8, line 60; tables 1,2	1-15, 36-48, 68-74
E	WO 02 20073 A (INSULET CORP) 14 March 2002 (2002-03-14) page 8, line 1 -page 28, line 21; tables 1-13	1-93

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 01/50581

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0010628	A	02-03-2000	AU 5681599 A	14-03-2000
			EP 1109586 A2	27-06-2001
			JP 2002523149 T	30-07-2002
			US 2002107476 A1	08-08-2002
			WO 0010628 A2	02-03-2000
			US 2002002326 A1	03-01-2002
WO 0019887	A	13-04-2000	AU 6255699 A	26-04-2000
			EP 1119285 A1	01-08-2001
			WO 0019887 A1	13-04-2000
			US 2002002326 A1	03-01-2002
WO 0029047	A	25-05-2000	DE 19853035 A1	25-05-2000
			DE 19920896 A1	09-11-2000
			WO 9932174 A1	01-07-1999
			WO 0029047 A1	25-05-2000
			EP 1131118 A1	12-09-2001
US 5507288	A	16-04-1996	DE 4415896 A1	09-11-1995
			AU 674474 B2	19-12-1996
			AU 1763495 A	07-12-1995
			CA 2148569 A1	06-11-1995
			CN 1128353 A	07-08-1996
			EP 0680727 A1	08-11-1995
			FI 952131 A	06-11-1995
			HU 75243 A2	28-05-1997
			IL 113569 A	04-01-1998
			JP 7311196 A	28-11-1995
			KR 163476 B1	15-12-1998
			NO 951754 A	06-11-1995
			NZ 272000 A	24-04-1997
			ZA 9503585 A	04-11-1996
WO 0220073	A	14-03-2002	AU 8857501 A	22-03-2002
			WO 0220073 A2	14-03-2002
			US 2002072733 A1	13-06-2002

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